GLEASON, *et al.*
Method for Detecting Misaligned Phonetic
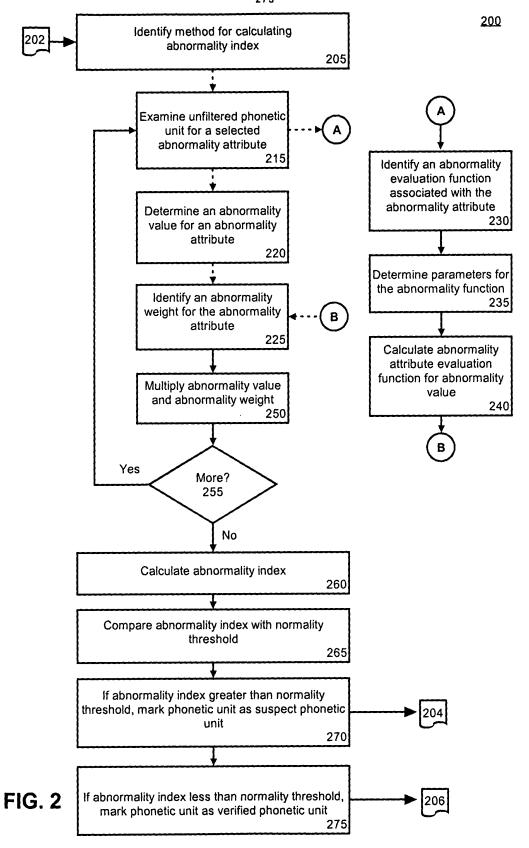Units for a Concatenative Text-to-Speech Voice
BOC9-2002-0069 (366)
1 / 3

FIG. 1

GLEASON, et al.
Method for Detecting Misaligned Phonetic
Units for a Concatenative Text-to-Speech Voice
BOC9-2002-0069 (366)
2 / 3

200

[202] → Identify method for calculating
abnormality index

205

Examine unfiltered phonetic
unit for a selected
abnormality attribute

215

→ (A)

(A)
↓

Identify an abnormality
evaluation function
associated with the
abnormality attribute

230

Determine an abnormality
value for an abnormality
attribute

220

Determine parameters for
the abnormality function

235

Identify an abnormality
weight for the abnormality
attribute

225

← (B)

Calculate abnormality
attribute evaluation
function for abnormality
value

240

Multiply abnormality value
and abnormality weight

250

(B)

Yes

More?
255

No

Calculate abnormality index

260

Compare abnormality index with normality
threshold

265

If abnormality index greater than normality
threshold, mark phonetic unit as suspect phonetic
unit

270

→ [204]

FIG. 2

If abnormality index less than normality threshold,
mark phonetic unit as verified phonetic unit

275

→ [206]

GLEASON, *et al.*
Method for Detecting Misaligned Phonetic
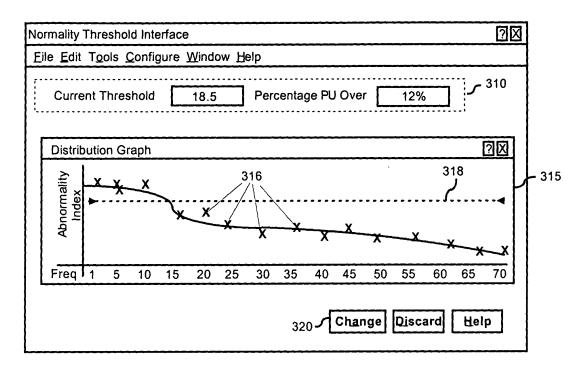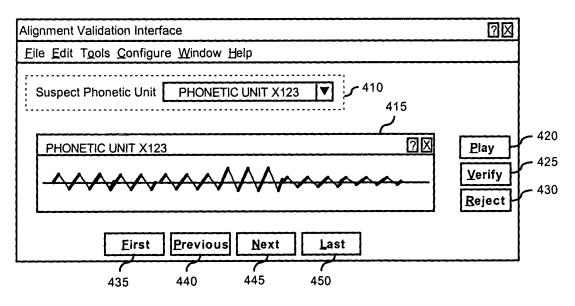Units for a Concatenative Text-to-Speech Voice
BOC9-2002-0069 (366)
3 / 3

300

Normality Threshold Interface   ?☒

File Edit Tools Configure Window Help

┌───┐ 310
│ Current Threshold   18.5   Percentage PU Over   12%   │
└───┘

Distribution Graph   ?☒   315

Abnormality Index

316   318

Freq 1   5   10   15   20   25   30   35   40   45   50   55   60   65   70

320 [Change] [Discard] [Help]

FIG. 3

400

Alignment Validation Interface   ?☒

File Edit Tools Configure Window Help

┌───┐
│ Suspect Phonetic Unit   PHONETIC UNIT X123   ▼   │   410
└───┘
                                                          415

PHONETIC UNIT X123   ?☒   [Play]   420

                                                                 [Verify]   425

                                                                 [Reject]   430

[First]   [Previous]   [Next]   [Last]

435   440   445   450

FIG. 4